SEQUENCE LISTING

<110>	LIZAKI, N	ORIYUKI
	YASOHARA.	YOSHIHIKO
	HASEGAWA,	JUNZO

- <120> NOVEL CARBONYL REDUCTASE, GENE THEREFOR, AND METHOD OF USING THE SAME
- <130> 025835/0104
- <140> 10/088,920
- <141> 2002-06-03
- <150> PCT/JP01/06619
- <151> 2001-08-01
- <150> JP 2000-232756
- <151> 2000-08-01
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- <213> Micrococcus luteus

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- Gln Gly Thr Trp Gly Trp Gly Glu Asp Pro Gly Arg Arg Gly Asp Glu 20 25 30
- Val Ala Ala Leu His Ala Gly Leu Glu Leu Gly Met Thr Leu Val Asp \$35\$
- Thr Ala Glu Met Tyr Ala Asp Gly Gly Ala Glu Glu Val Ala Gly Glu
 50 60
- Ata Leu Ala Gly Arg Arg Asp Glu Ala Phe Val Val Ser Lys Val Met 65 70 75 80
- Pro Ser His Ala Ser Arg Ser Gly Thr Ile Ala Ala Cys Glu Arg Ser 85 90 95
- Let Lys Arg Let Cly Thr Asp Arg Ile Asp Let Tyr Let Bet His Trp 106 105
- Gin Fly Arg Ty: Pro Leu Gli. Asp Thr Val Ala Phe His Gli Te-115 120 125
- Val Glu Asp Gly Lys Ile Arg Tyr Trp Gly Val Ser Asn Phe Asp His 130 $$130_{\odot}$$
- Arg Ala Leu Ala Glu Leu Gin Asp Val Pro Gly Thr Ser Gly Leu Thr 145 150 155 160

Thr Asp Gln Val Leu Tyr Asn Leu Ser Arg Arg Gly Pro Glu Tyr Asp Leu Leu Pro Trp Cys Ala Asp His Gln Leu Pro Val Met Ala Tyr Ser Pro Ile Glu Gln Gly Arg Ile Leu Asp Asp Thr Thr Leu Asn Asp Val 200 195 Ala Ala Arg His Ser Val Ser Pro Ala Ala Ala Ala Leu Ala Trp Val Leu Arg Arg Asp Ser Leu Cys Thr Ile Pro Lys Ala Ser Ser Pro Gln His Val Arg Asp Asn Ala Thr Ala Leu Asp Val Glu Leu Thr Arg Glu 245 250 Asp Leu Asp Ala Leu Asp Arg Ala Phe Pro Pro Pro Ser Gly Pro Arg Pro Leu Glu Met Leu 275 <210> 2 <111> 1410 <212> DNA <213> Micrococcus luteus <220> <221> CDS <222> (108)..(938) ggtaccegec gecetectat aagecageac eggtegagga egegeeggee ettegaggat 60 ctcagcccac gtcccgcctc aggacaacca gaaggaagtg atcgcgg atg cga cgg Met Arg Arg atg acg ctg ccg agt ggg gag tcc atc cct gtg ctg ggc cag ggc acc 164 Met Thr Leu Pro Ser Gly Glu Ser Ile Pro Val Leu Gly Gln Gly Thr 5 10 tigg ged tigg ggt gag gad odd ggd ogd ogd ggd gad gag gth gdd gdg Trp Gly Trp Gly Glu Asp Pro Gly Arg Arg Gly Asp Glu Val Aia Ala ntg han doe gge ete dad etd dde atg acg etg gte gae ace gee gag Leu His Ala Gly Leu Giu Leu Giy Met ihi Leu Val Asp Thi Ala Glu 40 atg tac gcc gac ggt gcg gag gag gtg gct ggt gaa gca ttg gcg Met Tyr Ala Asp Gly Gly Ala Glu Glu Val Ala Gly Glu Ala Leu Ala 60

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gcc tcc cgt tc Ala Ser Arg Se 85	er Gly Thr I			_		
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ggg aaa atc cg Gly Lys Ile Ar 13	g Tyr Trp G					
gcc gag ctg ca Ala Glu Leu Gl 150						
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tgg tgc gcc ga Trp Cys Ala As 180	_			_	Pro Ile	
cag ggc cgc at Gln Gly Arg Il			_			-
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gac aac gcc ac Asp Asn Ala Th 245		sp Val Glu				
get etg gae eg Ala Leu Asp Ar 260					Pro Leu	
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